Claims

- [c1] An electronic system, comprising: a processor;
 - a memory having more than one memory location; and a bus connecting the processor to the memory, wherein the bus comprises:
 - a data bus for transmitting data; an address bus for identifying a first memory location; a main command bus for transferring a first command that relates to the first memory location; and a supplementary command bus for transferring a second command, wherein the second command does not relate to the first memory location.
- [c2] An electronic system according to claim 1, wherein the second command is a PRECHARGE command, and wherein the supplementary command bus comprises a one-bit bus.
- [c3] An electronic system according to claim 1, wherein: the main command bus transfers location-specific commands; and the supplementary command bus transfers only general commands.

- [c4] An electronic system according to claim 1, wherein: the second command is a secondary command indicator; and the supplementary command bus transfers a third command after the second command.
- [c5] An electronic system, comprising:
 a processor;
 a memory having more than one memory location; and
 a bus connecting the processor to the memory, wherein
 the bus comprises:
 a main command bus configured to transfer an addressspecific command; and
 a supplementary command bus configured to transfer a
 general command.
- [c6] An electronic system according to claim 5, wherein the general command is a PRECHARGE command.
- [c7] An electronic system according to claim 5, wherein: the general command is a secondary command indicator; and the supplementary command bus is further configured to transfer a third command after the second command.
- [08] A memory having an interface, wherein the interface comprises:

- a location-specific command interface configured to receive location-specific commands; and a general command interface configured to receive only one or more general commands.
- [c9] A memory according to claim 8, wherein the general command interface is configured to receive a PRECHARGE command.
- [c10] A memory according to claim 8, wherein the location-specific command interface is configured to receive location-specific commands and general commands.
- [c11] A memory having an interface, wherein the interface comprises a general command interface configured to receive a general command.
- [c12] A memory according to claim 11, wherein the general command is a PRECHARGE command.
- [c13] A memory according to claim 11, wherein the memory includes more than one bank, and the interface further comprises a general bank select interface configured to receive bank address information for the general command.
- [c14] A memory including a one-bit PRECHARGE input dedicated to receiving a PRECHARGE command.

- [c15] A memory according to claim 14, wherein the memory includes more than one bank, further including a general bank select interface configured to receive bank address information for the PRECHARGE command.
- [c16] A memory system, comprising:
 a memory controller; and
 a memory in communication with the memory controller,
 wherein the memory includes an interface, comprising:
 a main control interface for receiving a location-specific
 command; and
 a supplementary control interface for receiving a general
 command.
- [c17] A memory system according to claim 16, wherein the general command is a PRECHARGE command.
- [c18] A memory system according to claim 16, wherein: the general command is a secondary command indicator; and the supplementary control interface is configured to transfer a secondary command after the secondary command indicator.
- [c19] An electronic system, comprising:

 a processor; and
 a memory system connected to the processor, compris-

ing:

a memory controller connected to the processor; and a memory connected to the memory controller and having an interface, comprising:

an address interface for receiving an address signal; a main control interface, comprising:

a main command bus for receiving a first command signal relating to a memory location specified by the address signal; and

a main bank select bus for receiving a first bank select signal specifying a first bank corresponding to the first command signal; and

a supplementary control interface, comprising:

a supplementary command bus for receiving a second command signal, wherein the second command signal corresponds to a general command; and a supplementary bank select bus for receiving a second bank signal specifying a second bank corresponding to

[c20] A method of accessing a memory, comprising:
in a first time slot, requesting activation of a first row;
in a second time slot, requesting an access of a memory
location in the first row;

the second command signal.

in a third time slot, requesting activation of a second row and requesting closure the first row.

[c21] A method according to claim 20, further comprising: providing a main command bus, wherein the requesting activation of the second row occurs on the main command bus; and providing a supplementary command bus, wherein the requesting closure of the first row occurs on the supplementary command bus.